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ATTACHMENT B
CHARACTERISTICS OF AUDIO-VISUAL DEVICE
AS DESIGNED BY TSS

1. Recording time - 1 hour on 5" reel.
Tape speed - 1-7/8 i.p.s.
Number of channels - Two channel magnetic tape playback, single channel record with facilities to record on top or bottom channel simultaneous with playback. Metallic strips on tape synchronize the tape message with an automatic film transport.
Frequency - 3 d.b. 50-7500 cps.
Bias and Erase frequency - 25 KC
Signal to noise ratio - exceeds 45 db at normal recording level for the upper channel head, 35 db at normal recording level for the lower channel head.
Distortion - Amplifier distortion at low levels is less than 2 per cent total harmonic content. At 5 watts (maximum undistorted output) distortion is 8 per cent at 1000 cps.
Rewind - 10:1 ratio.
Rapid Tape Transport - Rapid forward speed approximately ten times normal playing speed accomplished without disturbing or rethreading tape.
Input connection - One jack on the rear of the recorder permits microphone input at 220,000 ohms (suitable for signals from minus 90 V.U. to minus 30 V.U.)
Output connection - The second output jack on the rear of the recorder is the high impedance output of the two amplifiers.
Recording level indicator - neon tube.
Reels - up to 5" diameter.
Start/stop - Instantaneous start and stop of the tape may be accomplished by using the standard Revere foot control, but it is not included in first prototype.
Power requirements - 115 volts, 40-80 cycles, 100 watts.
Weight - 25 lbs.
2. Automatic film strip projector - this unit is operated independently as a push-button controlled film strip projector or will accept the synchronizing signal from the tape machine to provide a completely automatic synchronizing audio-visual presentation. This unit is on Operadio 300 watt projector.

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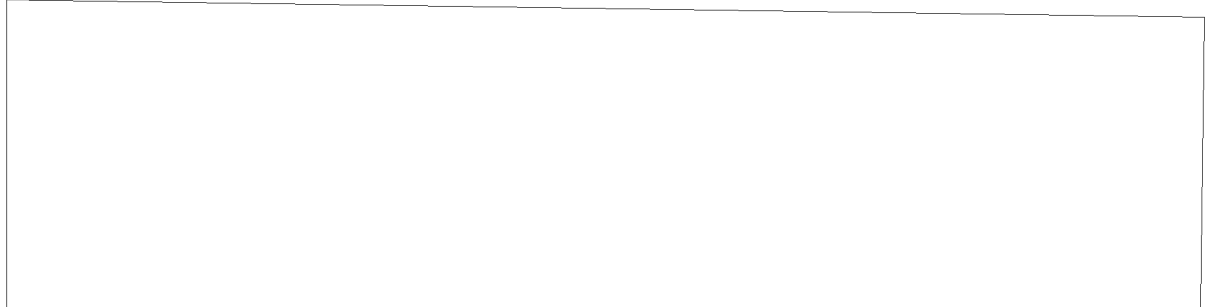
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3. Five pairs of crystal headphones (100 - 10,1000 cps) equipped with split cords and three contact plugs. A five parallel output jack junction box with cord to plug into recorder output permits group listening to the output of both channels with one being heard in each ear through the split headphone arrangement.

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